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Presence and Frequency of Occurrence of Plant Parasitic Nematodes on Coffee (Coffea Arabica L, Rubiaceae) in Ethiopia and the Importance of Endophytic Microorganisms for Biocontrol

By Tesfamariam Mekete

Cuvillier Verlag Jan 2008, 2008. Taschenbuch. Condition: Neu. Neuware - A survey was conducted to determine the occurrence and distribution of plant-parasitic nematodes and associated endophytic fungi and bacterial antagonists on coffee in Ethiopia. Soil and root samples were collected from 15 coffee growing agroecologies during the wet season in August 2004 and dry season in April 2006. The dominant plant-parasitic nematode genera found were *Helicotylenchus*, *Scutellonema*, *Rotylenchus*, *Xiphinema*, *Heterodera*, *Tylenchorhynchus* and *Quinisulcius*. *Helicotylenchus* predominated throughout the area (65-74%), followed by *Xiphinema* (29-40%). Nematode densities were generally higher in the wet season than in the dry season, however, relative abundance of nematode taxa was in the same order. For the major plant-parasitic nematode genera, specimens were identified to the following species: *Helicotylenchus dihystra*, *H. multicinctus*, *H. californicus*, *H. gerti*, *Xiphinema insignis*, *X. basilgoodeyi*, *Scutellonema parlabiatum*, *Rotylenchus unisexu*, *Tylenchorhynchus agri* and *Quinisulcius capitatus*. Nematodes considered to be of economic importance and involved in coffee decline were not detected in this survey. A total of 128 fungi growing endophytically were obtained from surface sterilized coffee roots. The most frequently detected genera were *Fusarium* and *Trichoderma*. Nematicidal effects of culture filtrates of these isolates on *M. incognita* juveniles were observed after 24 h of incubation. Juvenile inactivity ranged from 28% to 81% in which *Trichoderma* strain ET2 showed the highest level...



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An exceptional ebook along with the typeface utilized was fascinating to read through. I am quite late in start reading this one, but better then never. You are going to like the way the blogger write this publication.

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Basically no phrases to clarify. It really is rally fascinating throug reading time. Once you begin to read the book, it is extremely difficult to leave it before concluding.

-- **Anabel Zmlak**